

| REVISION | DATE |
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| 7-13-01 | |
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*.DGN FILE NAME
PS-4A

METRIC
STANDARD PLANS

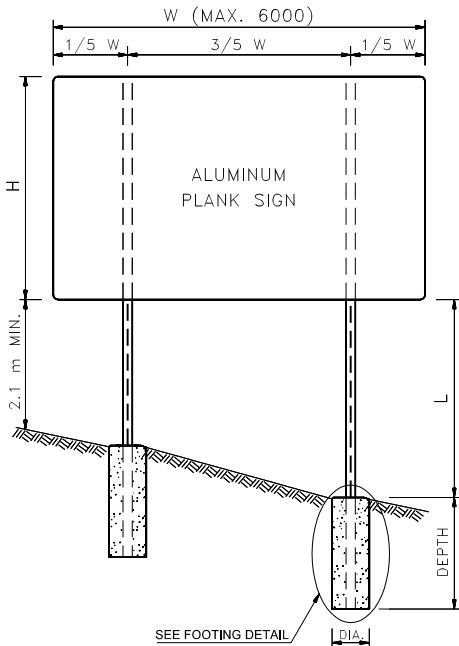
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.



PROCEDURE FOR SELECTING BEAM SECTIONS

- DETERMINE VALUES FOR W, H, & L AS INDICATED IN DRAWING
W = MAXIMUM WIDTH OF REQUIRED SIGN
H = MAXIMUM HEIGHT OF REQUIRED SIGN
L = MAXIMUM DISTANCE BETWEEN TOP OF FOOTING AND BOTTOM OF REQUIRED SIGN.
(SEE GENERAL NOTE NO. 4)
- FOR SIGN SIZES BETWEEN THOSE VALUES IN THE TABLE, USE NEXT HIGHEST METER VALUE.
- ENTER TABLE WITH MAXIMUM VALUE OF "L" AND REQUIRED VALUES OF "W" AND "H" FOR SELECTION OF APPROPRIATE BEAM SELECTION.

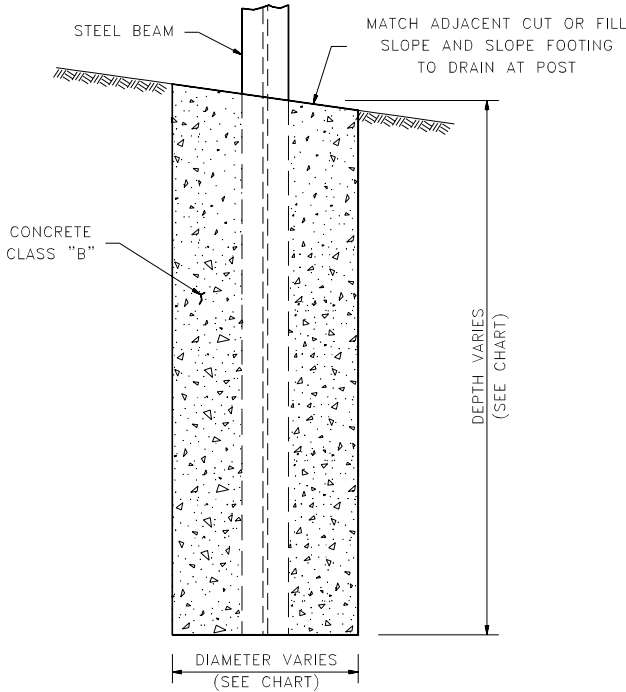
| 2 POST SIGN | | | | | | | | | | | | | |
|-------------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| W(mm) | L(m) | H(mm) | | | | | | | | | | | |
| | | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 | 3300 | 3600 | 3900 | 4200 | 4500 |
| 1800 | 2.4 | S100x11 | S100x11 | S100x11 | S100x11 | W150x14 | W150x14 | W150x14 | W150x18 | W150x18 | W150x18 | W150x22 | W150x22 |
| | 3.0 | S100x11 | S100x11 | S100x11 | W150x14 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W150x22 | W150x22 |
| | 3.6 | S100x11 | S100x11 | W150x14 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W150x22 | W200x27 | W200x27 |
| 2400 | 2.4 | S100x11 | S100x11 | W150x14 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W150x22 | W200x27 | W200x27 |
| | 3.0 | S100x11 | W150x14 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 |
| | 3.6 | S100x11 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 |
| 3000 | 2.4 | S100x11 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 |
| | 3.0 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 |
| | 3.6 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 |
| | 4.3 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 |
| | 4.9 | W150x14 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 |
| 3600 | 2.4 | W150x14 | W150x14 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 |
| | 3.0 | W150x14 | W150x14 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 |
| | 3.6 | W150x14 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W200x31 |
| | 4.3 | W150x18 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 |
| | 4.9 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W200x31 | W250x33 | W250x33 | W250x33 |
| 4200 | 2.4 | W150x18 | W150x18 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 |
| | 3.0 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x33 |
| | 3.6 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 |
| | 4.3 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 | W250x39 |
| | 4.9 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 | W250x39 |
| 4800 | 2.4 | W150x18 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x33 |
| | 3.0 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 |
| | 3.6 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 |
| | 4.3 | W150x22 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 |
| | 4.9 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 |
| | 5.5 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 | W310x39 |
| 5400 | 2.4 | W150x18 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 |
| | 3.0 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 | W250x39 |
| | 3.6 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 |
| | 4.3 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 |
| | 4.9 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 | W310x39 |
| | 5.5 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 | W310x39 | W310x39 | -- |
| 6000 | 2.4 | W150x22 | W150x22 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 | W250x39 |
| | 3.0 | W150x22 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 |
| | 3.6 | W200x27 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x39 | W310x39 | W310x39 | W310x39 | W310x39 |
| | 4.3 | W200x27 | W200x27 | W200x27 | W200x31 | W200x31 | W250x33 | W250x39 | W250x39 | W310x39 | W310x39 | W310x39 | -- |
| | 4.9 | W200x27 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 | W310x39 | -- | -- |
| | 5.5 | W200x27 | W200x27 | W200x31 | W250x33 | W250x33 | W250x39 | W250x39 | W310x39 | W310x39 | W310x39 | -- | -- |
| | 6.1 | W200x27 | W200x27 | W200x31 | W250x33 | W250x39 | W250x39 | W310x39 | W310x39 | W310x39 | -- | -- | -- |



POST SPACING DETAIL

GENERAL NOTES

1. SIGNS SHALL BE PROVIDED FOR LOCATIONS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE SIGN TEXT LAYOUT SHEETS IN PLANS FOR SIGN SIZES AND APPROXIMATE LOCATIONS.
2. DIMENSIONS, ELEVATIONS, SLOPES, AND SITUATIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL CASES WILL DEPEND ON FIELD CONDITIONS.
3. WHEN TWO INDEPENDENT SIGNS ARE MOUNTED AS A SINGLE INSTALLATION, THE POST SUPPORTS SHALL BE CALCULATED WITH THE TOTAL AREA OF THE TWO SIGNS BEING CONSIDERED AS ONE UNIT, INCLUDING AN ALLOWANCE FOR A 150 mm VERTICAL SPACE BETWEEN THE TWO SIGNS.
4. POST LENGTH TO BE DETERMINED BY SIGN SIZE AND LOCATION, AND EXACT FIELD LOCATION TO BE DETERMINED BY THE ENGINEER.
5. TOP ELEVATIONS OF STEEL POSTS SHALL BE THE SAME FOR EACH SIGN AND FLUSH WITH SIGN TOP.
6. SEE STANDARD NO. PS-1A & PS-1B FOR ADDITIONAL INFORMATION.



FOOTING DETAIL

| POST | FOOTING | |
|---------|---------|----------|
| | DEPTH | DIAMETER |
| S100x11 | 1.8 m | 600 mm |
| W150x14 | 1.8 m | 600 mm |
| W150x18 | 1.8 m | 600 mm |
| W150x22 | 2.3 m | 600 mm |
| W200x27 | 2.3 m | 750 mm |
| W200x31 | 2.6 m | 750 mm |
| W250x33 | 2.6 m | 900 mm |
| W250x39 | 2.6 m | 900 mm |
| W310x39 | 2.6 m | 900 mm |

PERMANENT SIGNING STANDARD

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS OR METERS.
WHOLE NUMBERS INDICATE MILLIMETERS; DECIMAL
NUMBERS INDICATE METERS UNLESS OTHERWISE NOTED.

STEEL BEAM DETAILS
(NON-BREAKAWAY)

| REVISION | DATE |
|----------|------|
| 7-13-01 | |
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